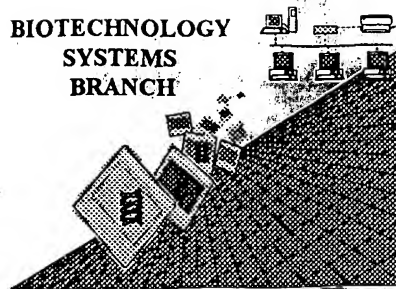


0280

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/032,221
Source: OIPE
Date Processed by STIC: 1/15/2002

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER**
VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom, including:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission

User Manual - ePAVE)

2. U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202

3. Hand Carry directly to:

U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name,
Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202

Or

U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,
2011 South Clark Place, Arlington, VA 22202

4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,
Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/032,221

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 J Variable Length Sequence(s) 45 (maybe more) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.
 Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/032,221

DATE: 01/15/2002
TIME: 15:30:43

Input Set : A:\14401027016.txt
Output Set: N:\CRF3\01152002\J032221.raw

Does Not Comply
Corrected Diskette Needed

ppr 1-5

OK

4 <110> APPLICANT: Raghuram Kalluri
6 <120> TITLE OF INVENTION: ANTI-ANGIOGENIC PROTEINS AND FRAGMENTS
7 AND METHODS OF USE THEREOF
10 <130> FILE REFERENCE: 1440.1027-016
12 <140> CURRENT APPLICATION NUMBER: US/10/032,221
12 <141> CURRENT FILING DATE: 2001-12-21
12 <150> PRIOR APPLICATION NUMBER: PCT/US01/00565
13 <151> PRIOR FILING DATE: 2001-01-08
15 <150> PRIOR APPLICATION NUMBER: US 09/543,371
16 <151> PRIOR FILING DATE: 2000-04-04
18 <150> PRIOR APPLICATION NUMBER: US 09/335,224
19 <151> PRIOR FILING DATE: 1999-06-17
21 <150> PRIOR APPLICATION NUMBER: US 60/126,175
22 <151> PRIOR FILING DATE: 1999-03-25
24 <150> PRIOR APPLICATION NUMBER: US 60/089,689
25 <151> PRIOR FILING DATE: 1998-06-17
27 <150> PRIOR APPLICATION NUMBER: US 09/479,118
28 <151> PRIOR FILING DATE: 2000-01-07
30 <150> PRIOR APPLICATION NUMBER: US 09/625,191
31 <151> PRIOR FILING DATE: 2000-07-21
33 <160> NUMBER OF SEQ ID NOS: 58
35 <170> SOFTWARE: FastSEQ for Windows Version 4.0

ERRORED SEQUENCES

108 <210> SEQ ID NO: 2
109 <211> LENGTH: 229
110 <212> TYPE: PRT
111 <213> ORGANISM: Homo sapiens
113 <400> SEQUENCE: 2
114 Ser Val Asp His Gly Phe Leu Val Thr Arg His Ser Gln Thr Ile Asp
115 1 5 10 15
116 Asp Pro Gln Cys Pro Ser Gly Thr Lys Ile Leu Tyr His Gly Tyr Ser
117 20 25 30
118 Leu Leu Tyr Val Gln Gly Asn Glu Arg Ala His Gly Gln Asp Leu Gly
119 35 40 45
120 Thr Ala Gly Ser Cys Leu Arg Lys Phe Ser Thr Met Pro Phe Leu Phe
121 50 55 60
122 Cys Asn Ile Asn Asn Val Cys Asn Phe Ala Ser Arg Asn Asp Tyr Ser
123 65 70 75 80
124 Tyr Trp Leu Ser Thr Pro Glu Pro Met Pro Met Ser Met Ala Pro Ile
125 85 90 95
126 Thr Gly Glu Asn Ile Arg Pro Phe Ile Ser Arg Cys Ala Val Cys Glu
127 100 105 110
128 Ala Pro Ala Met Val Met Ala Val His Ser Gln Thr Ile Gln Ile Pro
129 115 120 125

P.2

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,221

DATE: 01/15/2002

TIME: 15:30:43

Input Set : A:\14401027016.txt

Output Set: N:\CRF3\01152002\J032221.raw

```

130 Pro Cys Pro Ser Gly Trp Ser Ser Leu Trp Ile Gly Tyr Ser Phe Val
131      130      135      140
132 Met His Thr Ser Ala Gly Ala Glu Gly Ser Gly Gln Ala Leu Ala Ser
133 145      150      155      160
134 Pro Gly Ser Cys Leu Glu Glu Phe Arg Ser Ala Pro Phe Ile Glu Cys
135      165      170      175
136 His Gly Arg Gly Thr Cys Asn Tyr Tyr Ala Asn Ala Tyr Ser Phe Trp
137      180      185      190
138 Leu Ala Thr Ile Glu Arg Ser Glu Met Phe Lys Lys Pro Thr Pro Ser
E--> 139
      195      200      205 ✓ insert hard return
      Thr Leu Lys Ala Gly Glu Leu Arg
235 <210> SEQ ID NO: 6
236 <211> LENGTH: 227
237 <212> TYPE: PRT
238 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 6
241 Val Ser Ile Gly Tyr Leu Leu Val Lys His Ser Gln Thr Asp Gln Glu
242 1      5      10      15
243 Pro Met Cys Pro Val Gly Met Asn Lys Leu Trp Ser Gly Tyr Ser Leu
244      20      25      30
245 Leu Tyr Phe Glu Gly Gln Glu Lys Ala His Asn Gln Asp Leu Gly Leu
246      35      40      45
247 Ala Gly Ser Cys Leu Ala Arg Phe Ser Thr Met Pro Phe Leu Tyr Cys
248      50      55      60
249 Asn Pro Gly Asp Val Cys Tyr Tyr Ala Ser Arg Asn Asp Lys Ser Tyr
250 65      70      75      80
251 Trp Leu Ser Thr Thr Ala Pro Leu Pro Met Met Pro Val Ala Glu Asp
252      85      90      95
253 Glu Ile Lys Pro Tyr Ile Ser Arg Cys Ser Val Cys Glu Ala Pro Ala
254      100      105      110
255 Ile Ala Ile Ala Val His Ser Gln Asp Val Ser Ile Pro His Cys Pro
256      115      120      125
257 Ala Gly Trp Arg Ser Leu Trp Ile Gly Tyr Ser Phe Leu Met His Thr
258      130      135      140
259 Ala Ala Gly Asp Glu Gly Gly Gly Gln Ser Leu Val Ser Pro Gly Ser
260 145      150      155      160
261 Cys Leu Glu Asp Phe Arg Ala Thr Pro Phe Ile Glu Cys Asn Gly Gly
262      165      170      175
263 Arg Gly Thr Cys His Tyr Tyr Ala Asn Lys Tyr Ser Phe Trp Leu Thr
264      180      185      190
265 Thr Ile Pro Glu Gln Ser Phe Gln Gly Ser Pro Ser Ala Asp Thr Leu
E--> 266
      195      200      205 ✓ insert hard return
      Lys Ala Gly Leu Ile Arg Thr His
430 <210> SEQ ID NO: 13
431 <211> LENGTH: 8
432 <212> TYPE: PRT
433 <213> ORGANISM: Artificial Sequence
435 <220> FEATURE:
436 <223> OTHER INFORMATION: Additional vector sequence added to protein
438 <400> SEQUENCE: 13
E--> 439 Met Asp Ile Gly Ile Asn Ser Asp 1      5
      ✓ insert hard return

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/032,221

DATE: 01/15/2002

TIME: 15:30:43

Input Set : A:\14401027016.txt

Output Set: N:\CRF3\01152002\J032221.raw

440 <210> SEQ ID NO: 14

441 <211> LENGTH: 7

442 <212> TYPE: PRT

443 <213> ORGANISM: Artificial Sequence

445 <220> FEATURE:

446 <223> OTHER INFORMATION: Additional vector sequence added to protein

448 <400> SEQUENCE: 14

E--> 449 Lys Leu Ala Ala Ala Leu Glu 1

5

see following pages for more errors

□<210> 38
□<211> 25
□<212> PRT
□<213> Artificial Sequence

□

□<220>

□<223> T7-mutant (amino acids 74-98 of SEQ ID NO:10;
□ methionine has been substituted for the leucine
□ residue at position 78 of the full-length

□ ~~Tumstatin molecule, and isoleucine has been~~

insert
→

□<223> substituted for valine at position 82, and
□ asparagine has been substituted for aspartic acid
□ at position 84)

□<400> 38

Per 1.823 d)
Sequence Rules,
4 lines MAXIMUM for
2237 response
→<2207
(insert)



The types of errors shown exist throughout
the Sequence Listing. Please check subsequent
sequences for similar errors.

<210> 45

□<211> 14

□<212> PRT

□<213> Artificial Sequence

Artificial Sequence

□

□<220>

□<223> Generic peptide

□

□<223> X at position 1 is a hydrogen or a peptidyl chain

□ of 1 to 17 amino acids

□

□<223> X at position 2 is F or K

□

□<223> X at position 5 is C, S or D

□

□<223> X at position 9 is D or C

□

□<223> X at position 11 is C, S or D

□

□<223> X at position 14 is a hydrogen or a peptidyl chain

□ of 1 to 12 amino acids

□

□<210> 45

□Xaa Xaa Leu Phe Xaa Asn Val Asn Xaa Val Xaa Asn Phe Xaa

□ 1

5

10

□

invalid - Xaa can only represent a single amino acid

(see item 5 on Enon summary sheet)

same error

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/032,221

DATE: 01/15/2002

TIME: 15:30:44

Input Set : A:\14401027016.txt

Output Set: N:\CRF3\01152002\J032221.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:139 M:252 E: No. of Seq. differs, <211>LENGTH:Input:229 Found:208 SEQ:2
L:266 M:252 E: No. of Seq. differs, <211>LENGTH:Input:227 Found:208 SEQ:6
L:439 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8 Found:0 SEQ:13
L:449 M:252 E: No. of Seq. differs, <211>LENGTH:Input:7 Found:0 SEQ:14
L:917 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:918 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:919 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:955 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:974 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:993 M:259 W: Allowed number of lines exceeded, <223> Other Information:
L:1035 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:45
L:1055 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:45
L:1055 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:45
L:1055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45